## LISTING OF CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

- (Currently amended) A method for communicating between a first communication endpoint coupled to an R<sub>m</sub> interface and a second communication endpoint coupled to a network, the method comprising:
- a. receiving a provisioning request for a resource by a mobile station manager from one of the first communication endpoint and the second communication endpoint;
- provisioning the resource for the connected entity in response to the provisioning request,

wherein the resource uniquely identifies the first communication endpoint on the communication network:

c. establishing a predetermined communication state between the first communication endpoint and the second communication endpoint through the mobile system <u>station</u> manager in response to the provisioning request,

wherein the first communication endpoint communicates messages over the  $R_m$ interface with the mobile system station manager as TE2-type signals; and

wherein the second communication endpoint communicates messages with the mobile system station manager as network protocol signals; and

 adapting the communicated messages between TE2-type signals and network protocol signals.

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2. (Original) The method of Claim 1, further comprising adapting messages for

communication between the mobile station manager and the first communication endpoint

over an  $R_{\mbox{\scriptsize m}}$  interface using one of an asynchronous, a synchronous, a isochronous, and a

variable-rate physical interface protocol, wherein the messages are communicated across one

of a wired physical interface and a wireless physical interface, and wherein the  $R_{\text{m}}$  interface

is substantially ISDN-incompatible physical interface.

3. (Original) The method of Claim 1, further comprising adapting messages for

communication between the mobile station manager and the second communication endpoint

over an Um interface using one of a CDMA carrier access method, a TDMA carrier access

method, a FDMA carrier access method, and an operable combination thereof.

4. (Original) The method of Claim 2, further comprising adapting messages for

communication between the mobile station manager and the second communication endpoint

over an U<sub>m</sub> interface using one of a CDMA carrier access method, a TDMA carrier access

method, a FDMA carrier access method, and an operable combination thereof.

5-36. (Withdrawn)

37. (Currently amended) A method for communicating across a network with a

remote host, the method comprising:

a. receiving a provisioning request for a resource by a mobile station manager

coupled to at least one mobile terminal, wherein the at least one mobile terminal

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communicates messages as TE2-type signals through a respective  $R_m$  interface with the mobile system station manager;

b. provisioning the resource in response to the provisioning request, wherein the

resource uniquely identifies the at least one mobile terminal relative to the communication

network:

establishing a predetermined communication state between the mobile station

manager and a selected available communication network using a selected wireless

communication protocol over a selected carrier access method; and

d. establishing a predetermined communication state between the at least mobile

terminal and the remote host through the mobile system station manager in response to the

provisioning request, wherein the remote host communicates messages with the mobile

system station manager as network protocol signals; and

adapting the communicated messages between TE2-type signals and network

protocol signals.

38. (Original) The method of Claim 37, further comprising adapting messages for

communication between the mobile station manager and the at least one mobile terminal over

an R<sub>m</sub> interface using one of an asynchronous, a synchronous, a isochronous, and a variable-

rate physical interface protocol, wherein the messages are communicated across one of a

wired physical interface and a wireless physical interface, and wherein the R<sub>m</sub> interface is a

substantially ISDN-incompatible physical interface.

39. (Original) The method of Claim 38, further comprising adapting messages for

communication between the mobile station manager and the second communication endpoint

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over an  $U_{\mbox{\scriptsize m}}$  interface using one of a CDMA carrier access method, a TDMA carrier access

method, a FDMA carrier access method, and an operable combination thereof.

40. (Original) The method of Claim 39, wherein the provisioning request comprises

one of an ALLOCATE request, a RELEASE request, a REVOKE request, an UPDATE

request, and a combination thereof.

41-52. (Withdrawn)

53. (Original) A mobile station for communicating with a mobile service provider

across a Um interface, comprising:

a. a mobile terminal coupled to, and configured to communicate messages

across, an R<sub>m</sub> interface, using a selected configuration; and

b. a wireless communication device coupled between the R<sub>m</sub> interface and the

Um interface,

wherein the wireless communication device provides the selected configuration to the

mobile terminal.

wherein the wireless communication device cooperates with the mobile terminal to

configure the mobile terminal to communicate the messages across the R<sub>m</sub> interface, and

wherein the wireless communication device is adapted to communicate the messages

with the mobile service provider across the U<sub>m</sub> interface.

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54. (Original) The mobile station of Claim 53, further comprising mobile terminals

coupled to, and configured to communicate messages across, the R<sub>m</sub> interface, each mobile

terminal using a respective selected configuration;

wherein the wireless communication device provides the respective selected

configuration to each mobile terminal,

wherein the wireless communication device cooperates with the mobile terminals to

configure the mobile terminals to communicate messages from the mobile terminals across

the R<sub>m</sub> interface, and

wherein the wireless communication device is adapted to communicate the messages

from the mobile terminals with the mobile service provider across the U<sub>m</sub> interface.

55. (Original) The mobile station of Claim 54, further comprising mobile terminals

coupled to, and configured to communicate messages across, predetermined R<sub>m</sub> interfaces,

each mobile terminal using a respective selected configuration to communicate respective

messages across a respective selected one of the predetermined R<sub>m</sub> interfaces;

wherein the wireless communication device provides the respective selected

configuration to each mobile terminal,

wherein the wireless communication device cooperates with the mobile terminals to

configure the mobile terminals to communicate messages from the mobile terminals across

the respective selected one of the predetermined R<sub>m</sub> interfaces, and

wherein the wireless communication device is adapted to communicate the messages

from the mobile terminals with the mobile service provider across the U<sub>m</sub> interface.

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56. (Original) The mobile station of Claim 55, wherein the wireless communication

device is adapted to communicate with mobile service providers across U<sub>m</sub> interfaces, is adapted to communicate the messages from a selected one of the mobile terminals with a

selected one of the mobile service providers across a respective one of the U<sub>m</sub> interfaces.

57. (Original) The mobile station of Claim 55, wherein the U<sub>m</sub> interface is

representative of a carrier access method comprising one of a digital carrier access method,

an analog carrier access method, and an operable combination thereof.

58. (Original) The mobile station of Claim 57, wherein the carrier access method

further comprises one of a CDMA carrier access method, a TDMA carrier access method, a

FDMA carrier access method, and an operable combination thereof.

59. (Original) The mobile station of Claim 58, wherein the carrier access method is a

carrier access method conforming at least in part to International Telecommunications Union

(Radio) Recommendation ITU-R M.1457.

60. (Original) The mobile station of Claim 58, wherein a first U<sub>m</sub> interface is

representative of a first carrier access method, and a second Um interface is representative of

a second carrier access method, and wherein the first carrier access method is different from

the second carrier access method.

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61. (Original) The mobile station of Claim 58, wherein a first U<sub>m</sub> interface is

representative of a first carrier access method, wherein a second U<sub>m</sub> interface is

representative of a second carrier access method, wherein the first carrier access method is

different from the second carrier access method, and wherein one of the first and second

carrier access method conforms at least in part to International Telecommunications Union

(Radio) Recommendation ITU-R M.1457.

62. (Original) A mobile station communicating with a communication network over

a wireless communication link, comprising:

a. a managed device having a selected network configuration, the managed

device communicating messages of TE2-type physical layer signals; and

b. a mobile station manager communicatingly coupled between the wireless

communication link and the managed device, and adapted to render TE2-type physical layer

signals suitable for exchanging with the communication network over the wireless

communication link,

wherein the mobile station manager dynamically provisions a selected network

configuration on behalf of the managed device and cooperates to apply the selected network

configuration to the managed device, the selected network configuration rendering the

managed device capable of communicating the messages over the communication network.

63. (Original) The mobile station of Claim 62, wherein the mobile station manager

further comprises:

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a device-related interface connected with the managed device, and adapted to

transform the messages of TE2-type physical layer signals over the R<sub>m</sub> interface into

messages conforming to a network protocol;

b. a network protocol interface connected with the wireless communication, and

adapted to transform the messages conforming to the network protocol into messages

suitable for communicating with the communication network over the U<sub>m</sub> interface; and

c. a mobile configuration manager adapted to manage the managed device and to

communicate the messages conforming to the network protocol between the device-related

interface and the network protocol interface.

64. (Original) The mobile station of Claim 63, wherein the managed device

comprises a non-ISDN compatible mobile terminal.

65. (Original) The mobile station of Claim 63, wherein TE2-type physical layer

signals comprise signals conforming at least in part to one of an ITU Recommendation, an

IEEE standard, an ISO standard, an ANSI standard, an IETF standard, an EIA standard, a

TIA standard, an IEC standard, an ETSI standard, an AIAA standard, an ARINC standard, a

SAE standard, a serial interface standard, a parallel interface standard, and an interface

standard representative of a selective combination thereof.

66. (Original) The mobile station of Claim 63, wherein the U<sub>m</sub> interface is

representative of a carrier access method, and the carrier access method comprises one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof.

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67. (Original) The mobile station of Claim 66, wherein the carrier access method

further comprises one of a CDMA carrier access method, a TDMA carrier access method, a

FDMA carrier access method, and an operable combination thereof.

68. (Original) The mobile station of Claim 67, wherein the carrier access method is a

carrier access method conforming at least in part to International Telecommunications Union

(Radio) Recommendation ITU-R M.1457.

69. (Original) The mobile station of Claim 63, wherein the mobile configuration

manager is adapted to communicate over first and second Um interfaces using respective first

and second network protocol interfaces; wherein a first Um interface is representative of a

first carrier access method, and a second Um interface is representative of a second carrier

access method.

70. (Original) The mobile station of Claim 69, wherein the mobile configuration

manager is adapted to communicate over first and second R<sub>m</sub> interfaces using respective first

and second device related interfaces; and wherein the first R<sub>m</sub> interface is connected with a

first managed device, and the second R<sub>m</sub> interface is connected with a first managed device.

71. (Original) The mobile station of Claim 63, wherein the mobile configuration

manager selects between the first network protocol interface for communicating across the

first Um interface using the first carrier access method and the second network protocol

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interface for communicating across the second U<sub>m</sub> interface using the the second carrier

access method, responsive to a Quality-of-Service input signal.

72. (Original) The mobile station of Claim 71, wherein the managed device is

a non-ISDN compatible mobile terminal and wherein TE2-type physical layer signals

communicated across the R<sub>m</sub> interface comprise signals conforming at least in part to one of

an ITU Recommendation, an IEEE standard, an ISO standard, an ANSI standard, an IETF

standard, an EIA standard, a TIA standard, an IEC standard, an ETSI standard, an AIAA

standard, an ARINC standard, a SAE standard, a serial interface standard, a parallel interface

standard, and an interface standard representative of a selected combination thereof.

73. (Original) The mobile station of Claim 72, wherein each of the U<sub>m</sub> interfaces is

representative of a carrier access method, and the carrier access method comprises one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof, and wherein the carrier access method further comprises one of a CDMA carrier

access method, a TDMA carrier access method, a FDMA carrier access method, and an

operable combination thereof.

74. (Original) The mobile station of Claim 73, wherein the carrier access method

comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

75. (Original) A mobile communication device, comprising:

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a. an interface configured as a device-related interface (DRIF), the DRIF

being connectable to a managed device communicating with a first physical signal format,

and configured to adapt messages communicated with the managed device between the first

physical format and a network communication format;

b. an interface configured as a network protocol interface (NPIF), the

NPIF being connectable to a communication network communicating with a second physical

signal format, and configured to adapt messages communicated with the communication

network between the network communication format and a second physical format; and

a mobile configuration manager coupled between the DRIF and the

NPIF,

wherein the mobile configuration manager receives a provisioning resource request in

the network communication format from one of the DRIF and the NPIF,

wherein the provisioning resource request includes selected combinations of an

ALLOCATE request, a RELEASE request, a REVOKE request, and an UPDATE request,

and

wherein the mobile configuration manager provisions the resource in response

thereto, such that the resource uniquely identifies the managed device on the communication

network.

76. (Original) The mobile communication device of Claim 75, wherein the the

managed device exchanges messages with DRIF over an R<sub>m</sub> interface using a first physical

signal format comprising ISDN-incompatible, TE2-type physical layer signals conforming at

least in part to one of an ITU Recommendation, an IEEE standard, an ISO standard, an ANSI

standard, an IETF standard, an EIA standard, a TIA standard, an IEC standard, an ETSI

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standard, an AIAA standard, an ARINC standard, a SAE standard, a serial interface standard,

a parallel interface standard, and an interface standard representative of a selected

combination thereof.

77. (Original) The mobile communication device of Claim 76, wherein the NPIF

exhanges messages over a Um interface in the second physical signal format representative of

a carrier access method, and the carrier access method comprises one of a digital carrier

access method, an analog carrier access method, and an operable combination thereof, and

wherein the carrier access method further comprises one of a CDMA carrier access method, a

TDMA carrier access method, a FDMA carrier access method, and an operable combination

thereof.

78. (Original) The mobile comuunication device of Claim 77, wherein the carrier

access method comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

79. (Original) A portable communication adaptor coupled between a TE2

communication terminal and a communication network, wherein the TE2 communication

terminal exchanges messages with a remote host over the communication network, the

terminal exemanges messages with a remote most over the communication network, the

adaptor comprising:

an first interface coupled with the TE2 communication terminal;

a second interface coupled with the communication network;

c. an address server linked to the first interface and the second interface,

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wherein the address server cooperates with the second interface to exchange the

messages with the communication network,

wherein the address server acts on a unique resource to the TE2 communication

terminal,

wherein the address server cooperates with the first interface to configure the TE2

communication terminal with the unique resource,

wherein the address server cooperates with the first interface to compel the TE2

communication terminal to respond as a local host relative to the remote host,

wherein the address server cooperates with the first interface to exchange messages

with the TE2 communication terminal, and

wherein the address server causes the portable communication adaptor to respond

substantially as a communication router.

80. (Original) The portable communication adaptor of Claim 79, wherein the address

server acts on the unique resource by transmitting to at least one of the first interface and the

second interface a provisioning signal including one of an ALLOCATE provisioning signal,

a RELEASE provisioning signal, a REVOKE provisioning signal, an UPDATE provisioning

signal, and a selected combination thereof.

81. (Original) The portable communication adaptor of Claim 80, wherein the TE2

communication terminal exchanges the messages with the first interface through an R<sub>m</sub>

interface using a TE2-type physical layer signal format conforming at least in part to one of

an ITU Recommendation, an IEEE standard, an ISO standard, an ANSI standard, an IETF

standard, an EIA standard, a TIA standard, an IEC standard, an ETSI standard, an AIAA

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standard, an ARINC standard, a SAE standard, a serial interface standard, a parallel interface

standard, and an interface standard representative of a selected combination thereof.

82. (Original) The portable communication adaptor of Claim 81, wherein the second

interface exchanges the messages with the communication network through a U<sub>m</sub> interface

using a carrier access method, and the carrier access method comprises at least one of a

digital carrier access method, an analog carrier access method, and an operable combination

thereof, and wherein the carrier access method further comprises one of a CDMA carrier

access method, a TDMA carrier access method, a FDMA carrier access method, and an

operable combination thereof.

83. (Original) The mobile communication device of Claim 82, wherein the carrier

access method comprises a carrier access method conforming at least in part to International

Telecommunications Union (Radio) Recommendation ITU-R M.1457.

84. (Original) The portable communication adaptor of Claim 82, further comprising

multiple first interfaces each selectably coupled with a respective one of multiple TE2

communication terminals, the TE2-type physical layer signal format of one of the multiple

TE2 communication terminals being different from the TE2-type physical layer signal format

of another of the multiple TE2 communication terminals.

85. (Original) The portable communication adaptor of Claim 84, further comprising

multiple second interfaces each selectably coupled with a respective one of multiple

communication networks, one of the multiple communication networks exchanging messages

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with one of the multiple second interfaces using a first carrier access method, and another of

the multiple communication networks exchanging messages with a another of the multiple

second interfaces using a second carrier access method, wherein the first carrier access

method is different from the second carrier access method.

86. (Original) The portable communication adaptor of Claim 85, wherein the

multiple second interfaces are selectably coupled with a respective one of multiple

communication networks responsive to a Quality-of Service signal.

87. (Original) The portable communication adaptor of Claim 82, wherein the

address server cooperates with the first interface and the second interface to exchange the

messages using one of an asynchronous service, a synchronous service, an isochronous

service, a variable-rate service, and a combination thereof.

REMARKS

Claims 1-4, 37-40, and 53-87 are pending in this application.

Rejections under 35 U.S.C. 112, second paragraph

Claims 1-4 and 37-40 are rejected under 35 U.S.C. 112, second paragraph for

containing language lacking proper antecedent basis.

Claims 1 and 37 have been amended to recite "mobile station manager" in place of "mobile system manager." It is respectfully submitted that these amendments obviate the

rejections of claims 1-4 and 37-40 under 35 U.S.C. 112, second paragraph.

Rejections under 35 U.S.C. 103(a)

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